EC-1025 CHASSIS
USER' S MANUAL

Ver 1.0

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Chapter 1 Product Information

1.1 General Information

EC-1025 is a rugged PC/ATX compatible rack mount computer chassis designed for the factory floor and other Industrial harsh environment. The EC-1025 features 6 slots passive Backplane and redundant power supply.

1.2 Product Specifications

1.2.1 General specification

- Construction : Heavy-duty steel
- Disk Driver : Supports one 3.5" FDD, one 5.25" CD-ROM , and four 3.5" HDD
- Cooling Fan : Two ball bearing fans for system cooling
- Indicator : Three LEDs to indicate the status of HDD, system power and redundant Power Supply
- Dimension : 19" Rack mount 2U ,576 x 431 x 88 mm (D x W x H)
- Weight : 23 kg
- Operating Temperature : 0~50° C
- Relative Humidity : 5~95% Relative Humidity
- Safety approval : meet CE, FCC

1.2.2 Option

Passive Backplanes

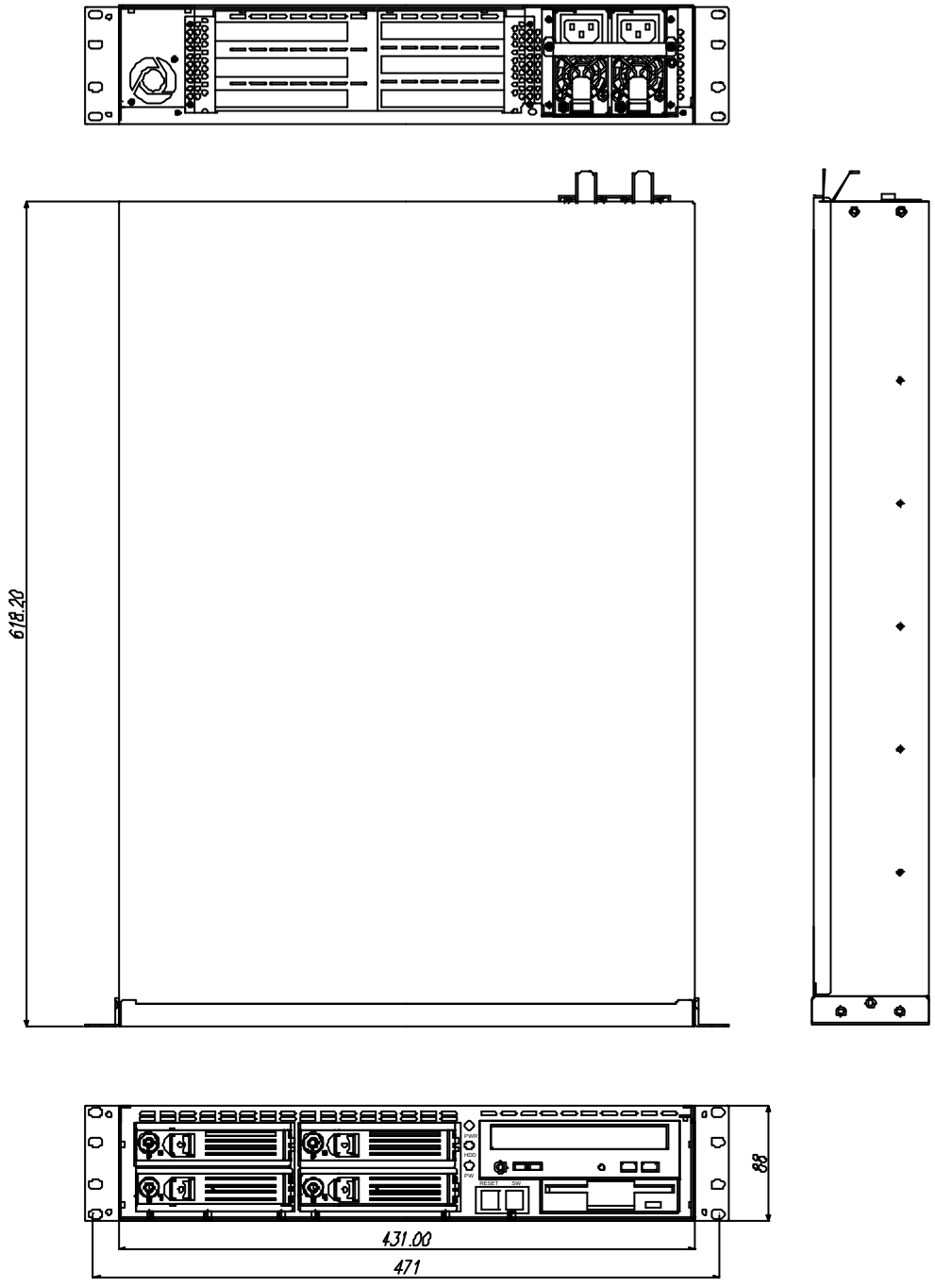
PCI-5SDA, PCI-6SDA,PX-6SDA

Power Supply

ACE-R2G redundant power supply only.

1.3 Dimensions

The dimensions of EC- 1025 shown below.

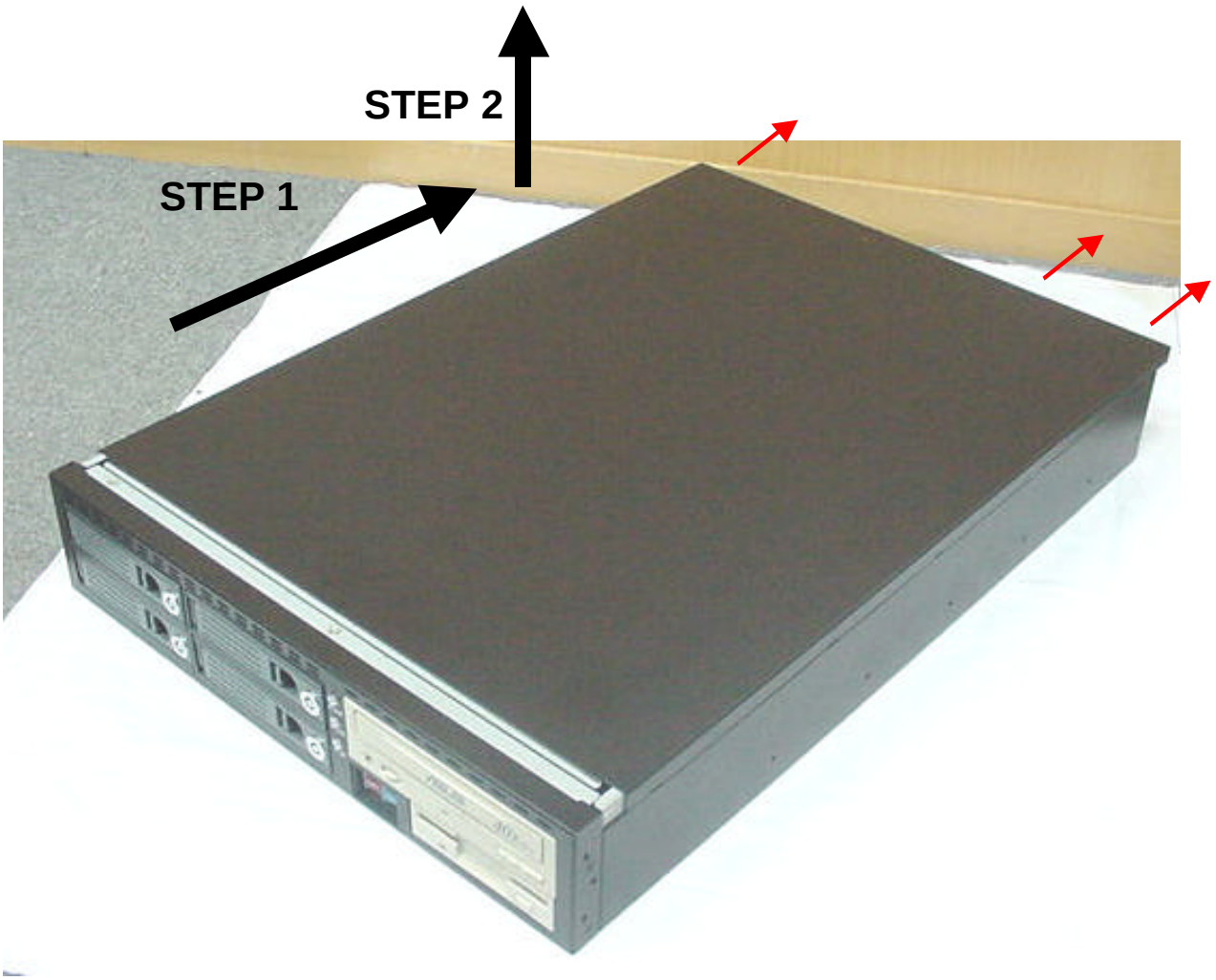


Chapter 2 Installation Procedure

The following procedure provided to assist you in installing the EC-1025, please follow the steps below:

2.1 Removing the chassis cover

The cover is mounted by three screws rear side the chassis, remove them and slide the cover backward to take off from the chassis. Figure below shows how to remove the chassis cover.



2.2 Front View:

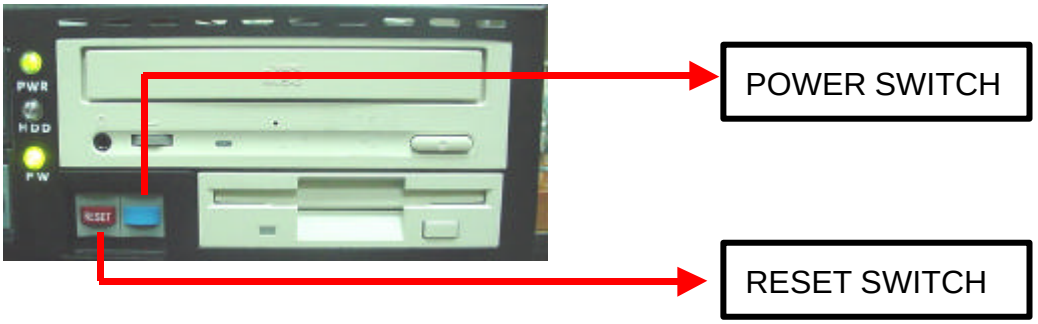
The front panel cover is used to avoid accidental interference with the features on the front panel interface. We recommend you to close the cover at all times shile not working with the system.

Picture of front View

The left side of front panel

Four HDD disk drive bays with lock.

The right side of front panel



There are 2 switches and 3 LEDs on the front panel interface.

Two switches : One for power the system ON/OFF, One for system reset

Three status indicator LEDs

Redundant power LED	This LED monitors the Power supply. The LED will turn GREEN if Power supply ON turn RED if Power supply ERROR
HDD LED	This LED monitors the HDD status of the driver.
Power LED	This LED monitors the Power . The LED will turn GREEN if Power ON

Opening for CD-ROM and FDD cage.

2.3 Rear Side View:

The rear view of chassis contains the following items.

1. Power Supply
2. PICMG CPU Board slot
3. FAN

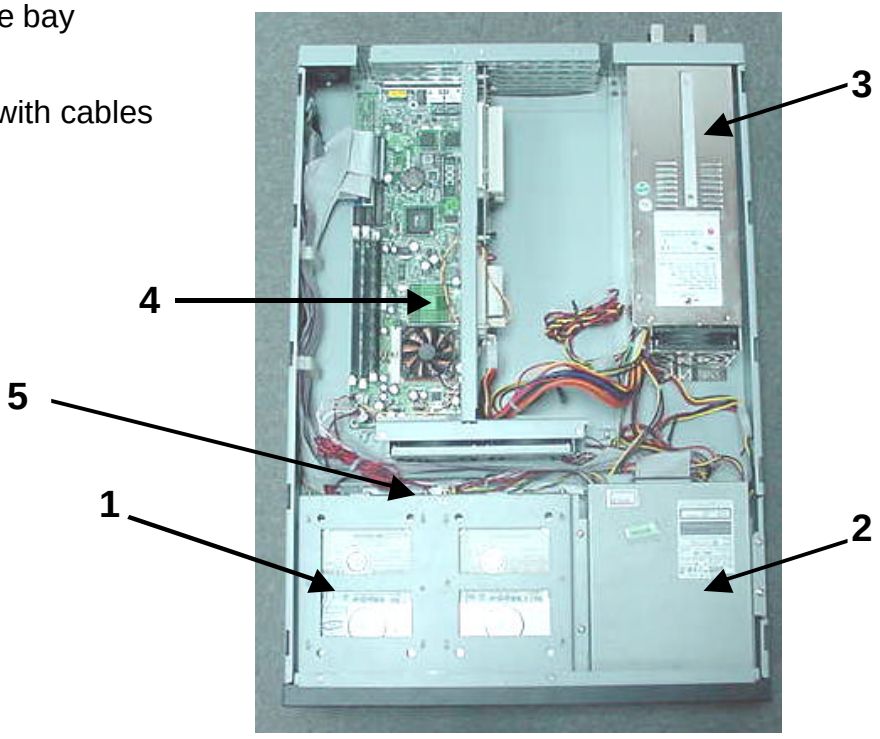
2.4 Inside View of the Chassis:

In order to access the components inside the chassis, you need to remove the cover.

1. Power off the system and disconnect the power connector.
2. Remove the two screws on the side cover that hold the cover in place.
3. Slide the cover backward and lift it off the box.

The inside of chassis contains the following items.

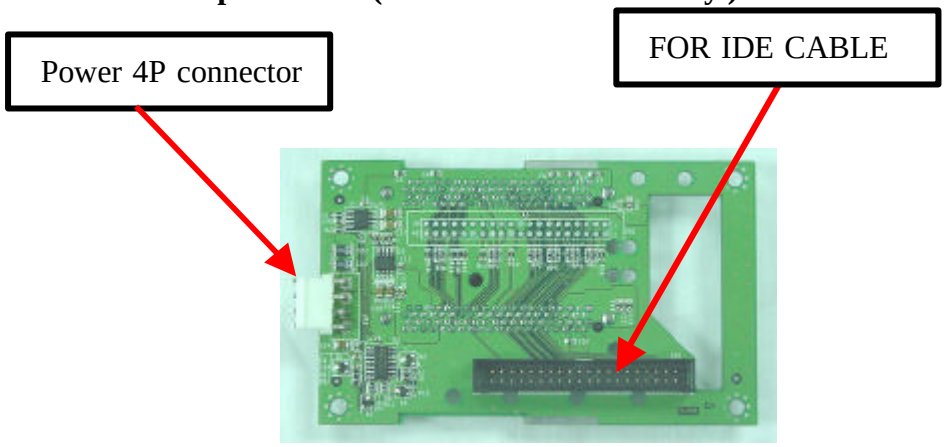
1. Disk drive bays
2. CD-ROM/diskette drive bay
3. Power supply
4. Space for CPU board with cables
5. HDD backplane



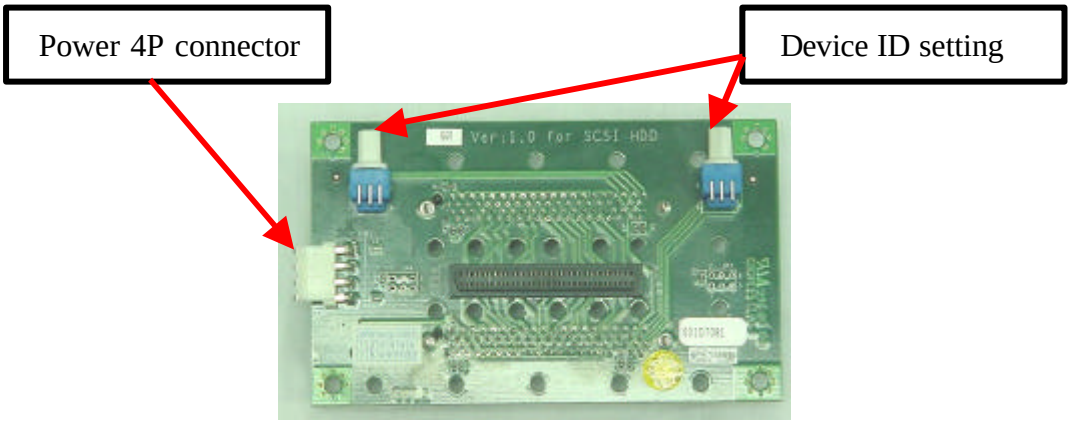
2.5 Disk Drives Installation

2.5.1 HDD Backplane

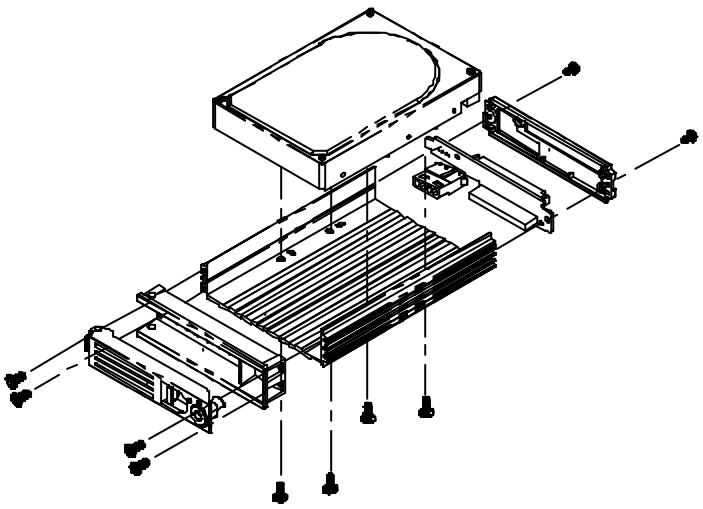
IDE HDD Backplane A104(EC-1025BI version only)



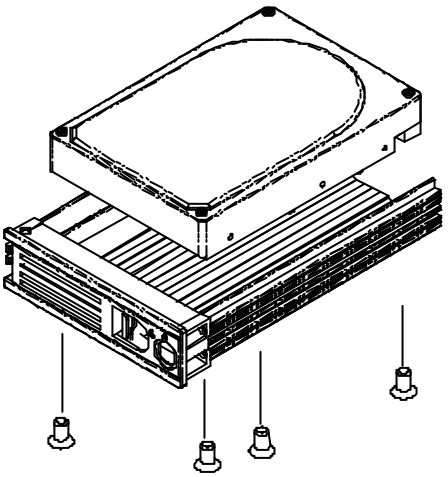
SCSI HDD Backplane G06 (EC-1025BS version only)



2.5.2 HDD installation



IDE HDD installation



SCSI HDD installation

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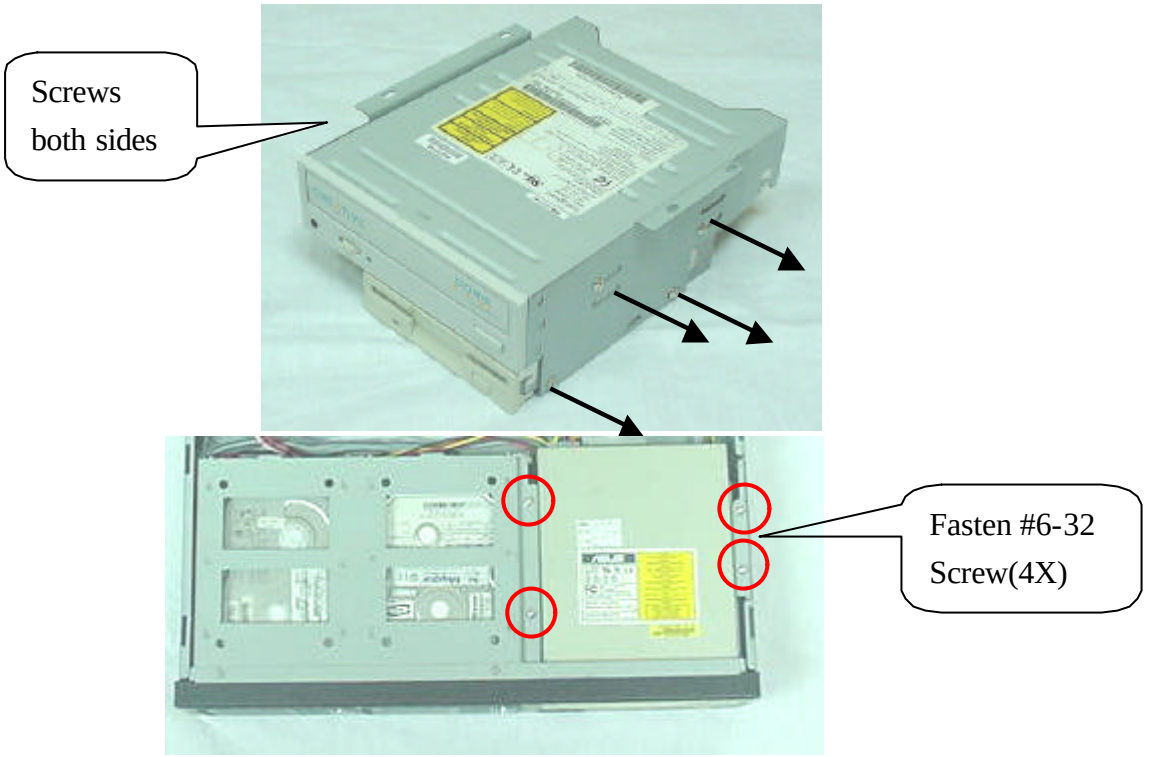
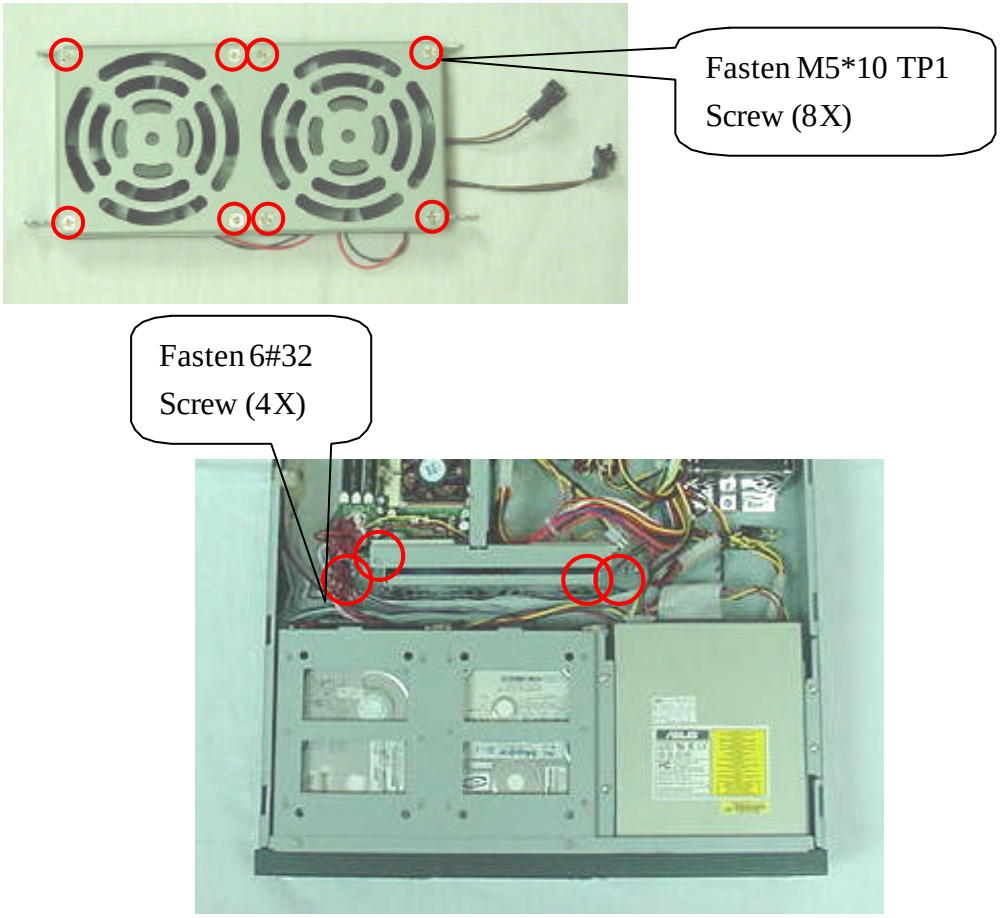
2.5.3 CD-ROM and FDD installation



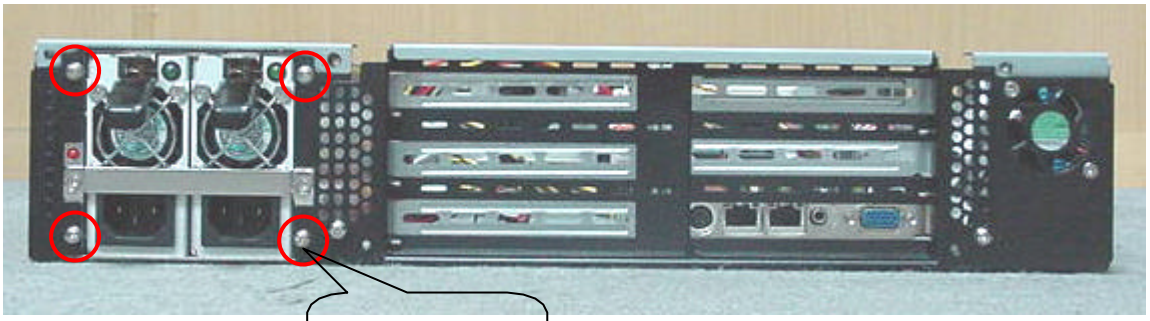
2.6 Fan Installation

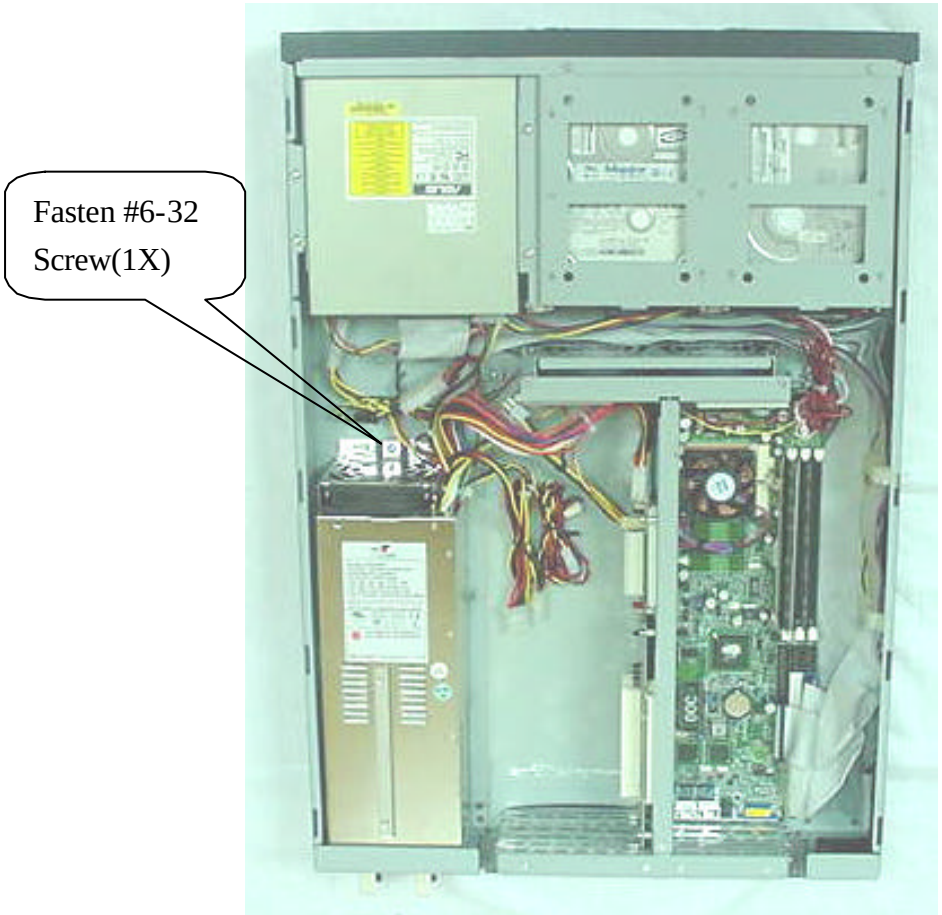
Figure below illustrates how to connect the Fan to the Power Supply .



2.7 Power Supply Installation

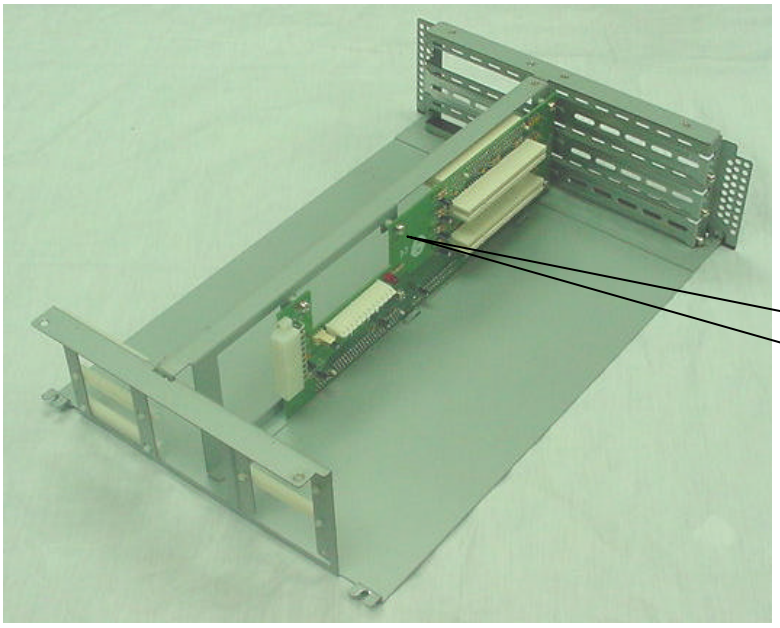
Please refer the figure below to install the Power Supply.



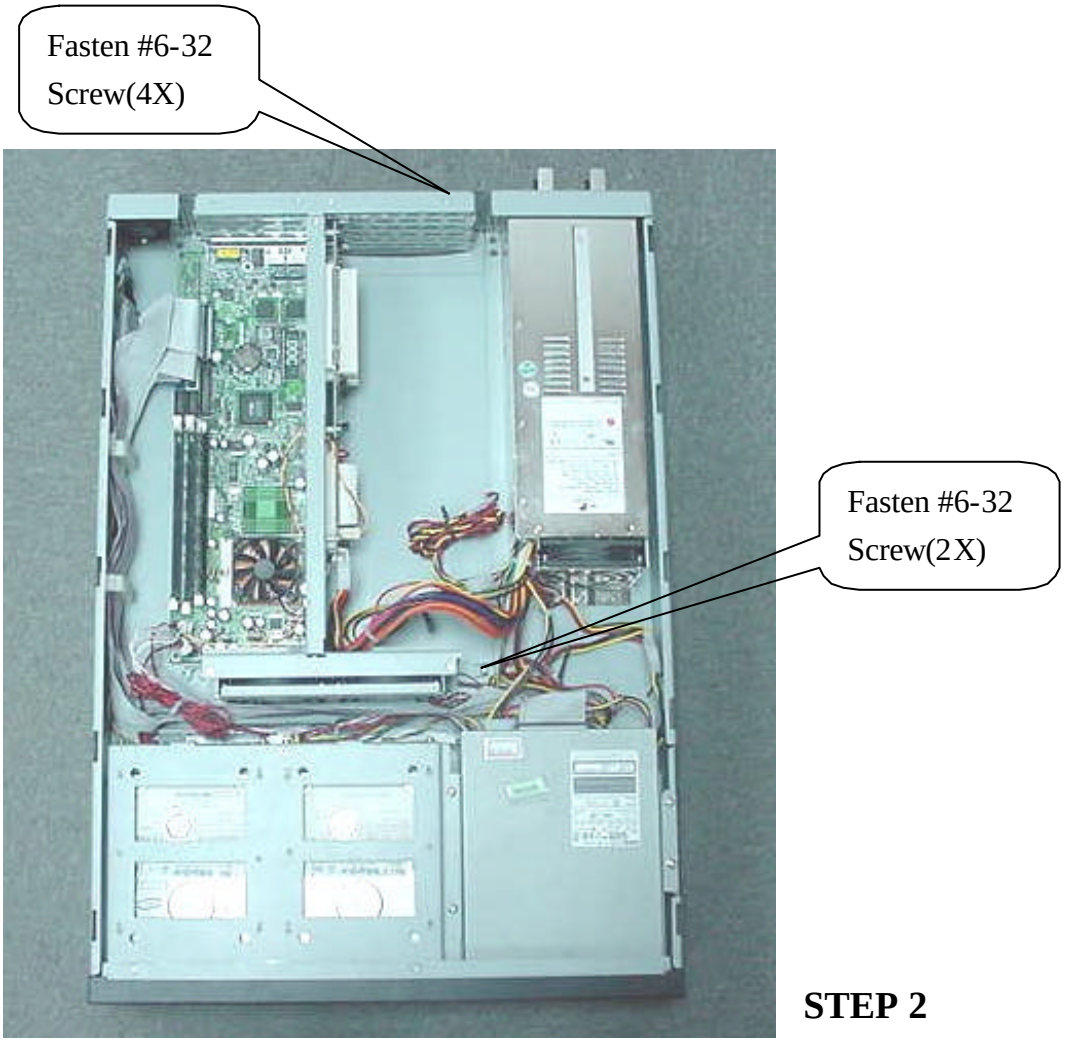


2.8 Backplane Installation

Figure below illustrates how to install the backplane on the EC-1025.



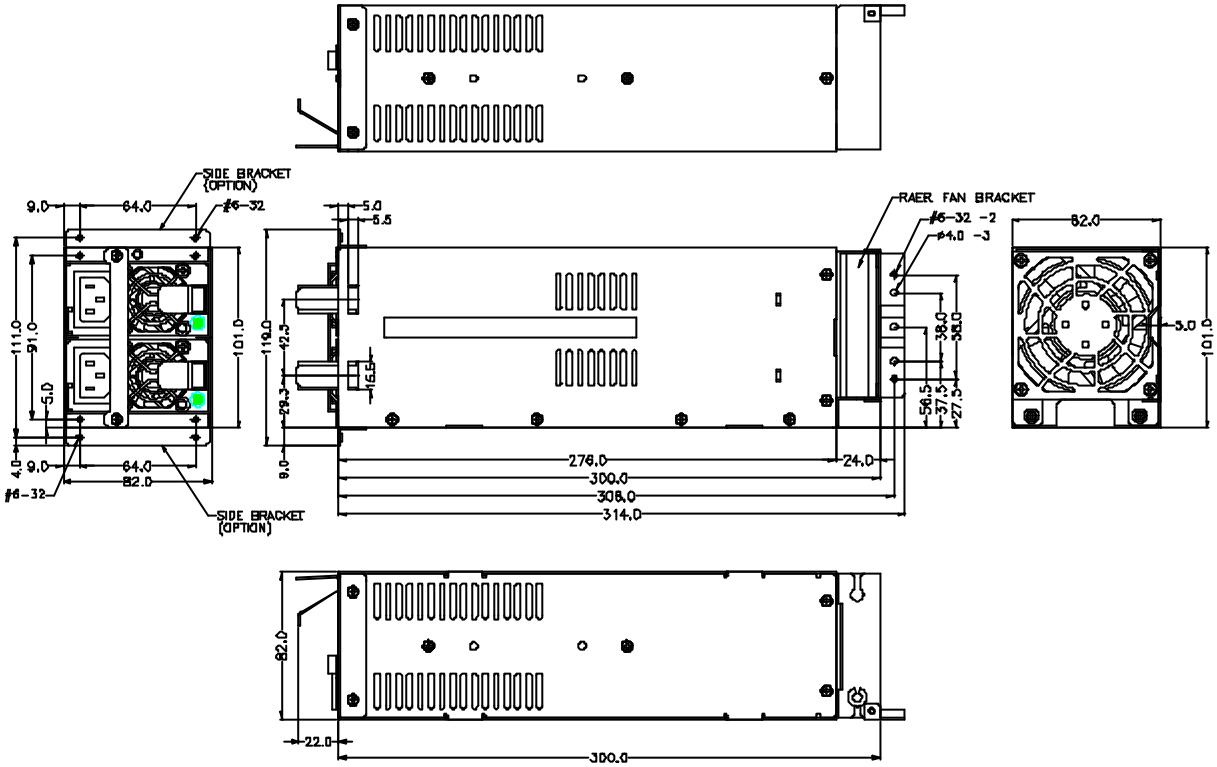
STEP 1



STEP 2

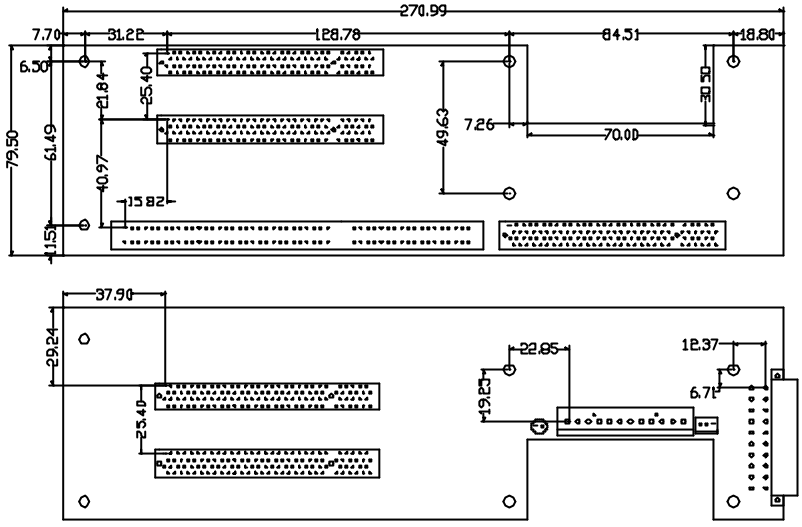
APPENDIX A POWER SUPPLY

EC-1025 was designed for equip redundant size power supply.

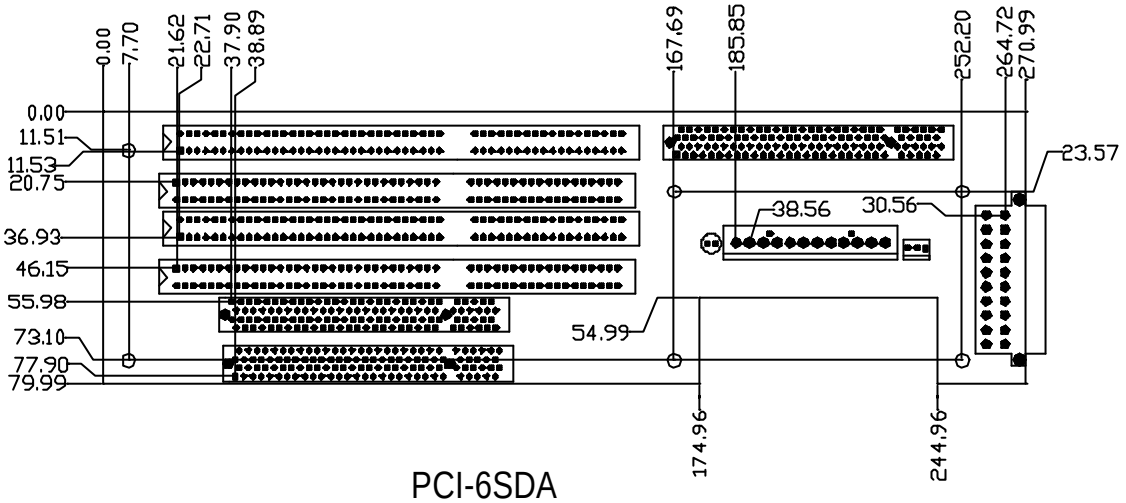


Normal	Load current		Regulation tolerance	
Output voltage	Max.	Min	Max.	Min.
+5V	32A	3.0A	+5%	-5%
+12V	16A	2.0A	+7%	-7%
-5V	0.5A	0.05A	+10%	-10%
-12V	0.8A	0.05A	+10%	-10%
+3.3V	20A	1.0A	+5%	-5%
+5VSB	1.5A	0.1A	+5%	-5%

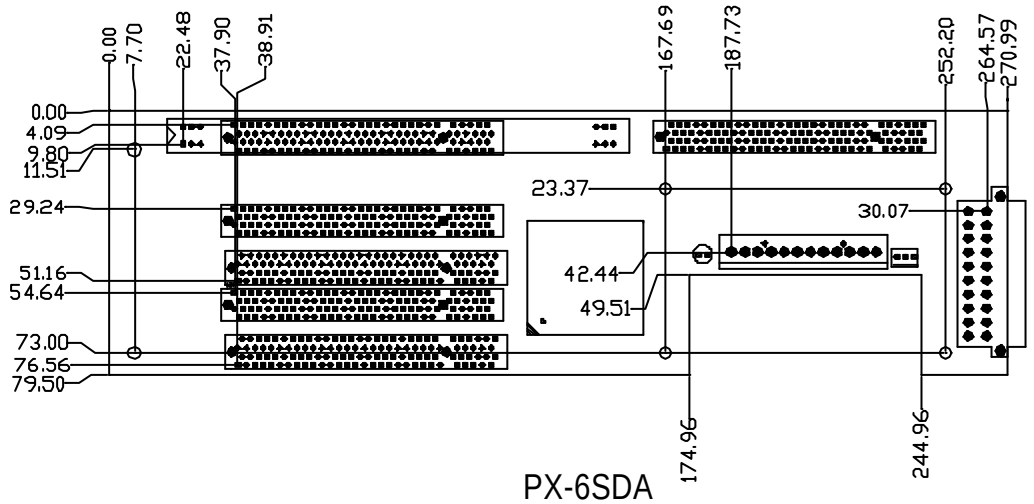
APPENDIX B PASSIVE BACKPLANE



PCI-5SDA



PCI-6SDA



PX-6SDA

APPENDIX D Accessories Kit List

ITEM	PART NO.	Description	Q' ty	Remark
1	32000-000002	ROUND CABLE.POWER CORD..175CM.	2	
2	41020-0067XX	Mount kit	2	
3	32100-035601	PS ON +5V SB	1	With ATX power supply
4	19600-000003	UNIT SCREW WS serial.		
4-1	44013-030061	Flat Screw.. 6#32*6	16	
4-2	44033-030061	Sink Screw.. M3*6...	8	
4-3	44005-050061	Black Round Screw..M5*6..	10	
4-4	44013-040101	Flat Screw.. M4*10	6	

1

2

3

4-1

4-2

4-3

4-4